



Epi Data Brief

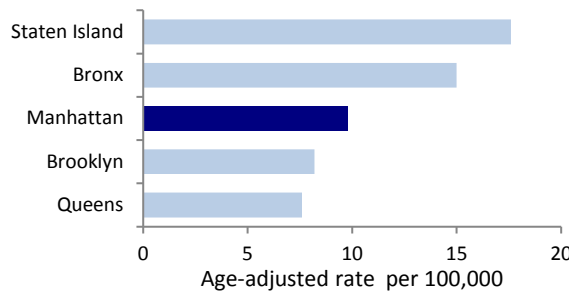
New York City Department of Health and Mental Hygiene

December 2015, No. 63

Unintentional Drug Poisoning (Overdose) Deaths in New York City: Manhattan, New York

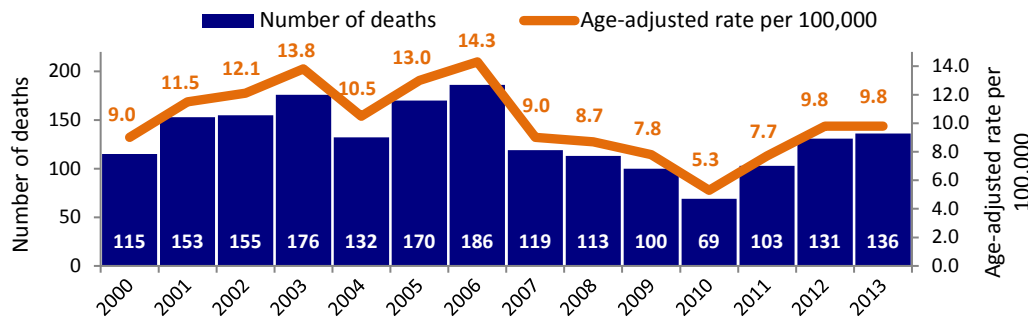
- In 2013, among residents of the five boroughs of New York City (NYC), those in the borough of Manhattan had the third-highest rate of unintentional drug poisoning (overdose) deaths (9.8 per 100,000 residents).¹
- Since 2010, the Manhattan rate of overdose deaths has increased 85% from 5.3 per 100,000 residents in 2010 to 9.8 per 100,000 residents in 2013.

Unintentional overdose deaths by borough of residence, New York City, 2013



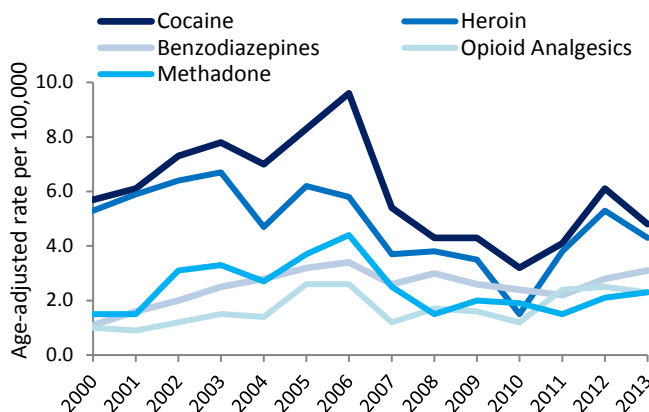
Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

Unintentional overdose deaths among Manhattan residents, 2000–2013



Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2000–2013

Unintentional overdose deaths among Manhattan residents, by drug involved, 2000–2013



Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2000–2013

- Among Manhattan residents, cocaine-involved overdose death rates were higher than heroin-involved overdose death rates each year from 2000 to 2013.
- The rate of benzodiazepine-involved overdose has increased by 182%, from 1.1 per 100,000 in 2000 to 3.1 per 100,000 residents in 2013.
- Rates of opioid analgesic-involved overdose increased by 130% from 1.0 in 2000 to 2.3 per 100,000 residents in 2013.

Data Source

¹NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics:

Mortality data were collected through an in-depth review of data and charts from DOHMH's Bureau of Vital Statistics and the Office of the Chief Medical Examiner for 2000-2013.

Definitions:

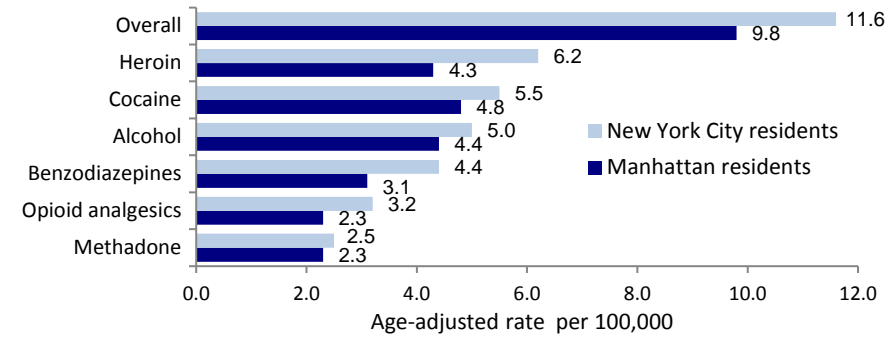
Rate calculation: NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates 2000-2013, updated October 8, 2014. These rates will differ from previously reported rates based on Census counts or previous versions of population estimates. Rates are age-adjusted to Census 2000 US standard population, except those for specific age groups.

Unintentional drug poisoning deaths referred to as overdose deaths: Derived from death certificates and includes deaths from both illicit drugs and licit drugs. Excludes drug poisonings where the manner of death was intentional (suicide), undetermined, or homicide. Toxicology findings were abstracted from OCME files. Drugs are not mutually exclusive.

Unintentional overdose deaths among Manhattan residents, 2013

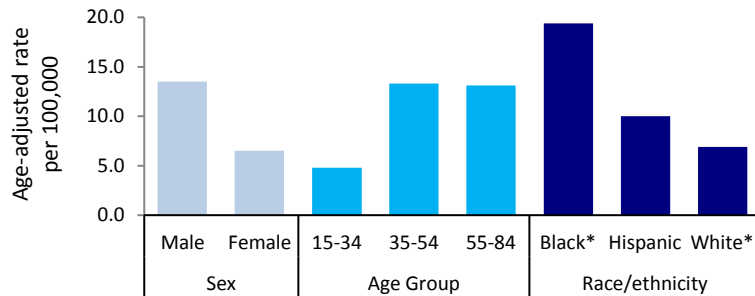
- In 2013, Manhattan residents had a higher rate of overall unintentional drug overdose (9.8 per 100,000) compared with NYC overall.
- In 2013, cocaine was the most common drug involved in unintentional overdoses among Manhattan residents (48%), followed by alcohol (46%) and heroin (45%).

Unintentional overdose deaths by drug type and residence, 2013



Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

Unintentional overdose deaths among Manhattan residents, by demographic characteristics, 2013



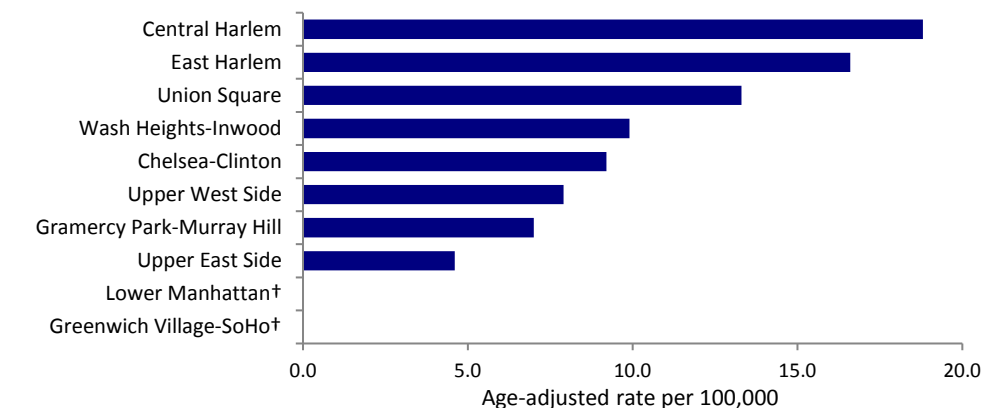
*non-Hispanic

Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

- In 2013, the rate for males was 13.5 per 100,000 compared with 6.5 per 100,000 residents among females.
- Manhattan residents aged 35-54 years had the highest rate of drug overdose deaths at 13.3 per 100,000, almost three times higher than Manhattan residents aged 15-34 years (4.8 per 100,000).
- Black residents have the highest rates of overdose when compared with Hispanic and White residents. In 2013, the overdose rate among Black residents was 19.4 per 100,000, more than double the rate of White residents (6.9 per 100,000).

- In 2012-2013, residents of Central Harlem had the highest rate of drug overdose in Manhattan (18.8 per 100,000), followed by East Harlem (16.6 per 100,000). Residents of three Manhattan neighborhoods had higher rates of drug overdose than NYC residents overall (9.9 per 100,000 residents in 2012-2013).

Unintentional overdose deaths among Manhattan residents by UHF-42* neighborhood, 2012-2013



*The United Hospital Fund (UHF) classifies New York City into 42 neighborhoods comprised of contiguous ZIP codes.

†Data censored due to small number of events

Source: NYC Office of the Chief Medical Examiner and NYC DOHMH Bureau of Vital Statistics, 2013

Authored by: Njideka Motanya, Michelle L. Nolan, Ellenie Tuazon, Shivani Mantha, Owen Tran, Denise Paone

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Epi Data Tables

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Data Tables

- Table 1.** Number and rate of unintentional drug poisoning (overdose) deaths, Manhattan residents, New York City, 2010-2013
- Map 1.** Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) by neighborhood of residence, 2012-2013

Data Sources

Bureau of Vital Stastics/Office of the Chief Medical Examiner: Mortality data were collected through an in-depth review of data and charts from the Health Department's Bureau of Vital Statistics and the Office of the Chief Medical Examiner for 2000-2013. Methadone is reported separately and not included in opioid analgesic analyses.

Rate Calculation: NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates 2000-2013, updated October 8, 2014. These rates will differ from previously reported rates based on Census counts or previous versions of population estimates. Rates are age-adjusted to Census 2000, except those for specific age groups.

Table 1. Number and rate of unintentional drug poisoning (overdose) deaths, Manhattan residents, New York City, 2010-2013

Source: Bureau of Vital Statistics/Office of the Chief Medical Examiner, New York City; Rates calculated using NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates, 2010-2013. Updated October 8th 2014. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.

Rates per 100,000 New Yorkers are age adjusted, except those for specific age groups.

	2010			2011			2012			2013		
	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate	Number	Percent	Rate
Total Unintentional Drug Poisoning Deaths	69	100%	5.3	103	100%	7.7	131	100%	9.8	136	100%	9.8
Gender												
Male	46	67%	7.3	69	67%	10.7	92	70%	14.2	90	66%	13.5
Female	23	33%	3.6	34	33%	4.9	39	30%	5.6	46	34%	6.5
Race/Ethnicity*												
Black (non-Hispanic)	20	31%	10.4	27	27%	14.9	31	25%	17.7	37	31%	19.4
Hispanic	21	32%	6.7	23	23%	7.2	33	26%	10.0	34	28%	10.0
White (non-Hispanic)	24	37%	3.8	51	50%	7.5	62	49%	9.7	50	41%	6.9
Age (years)												
15-34	9	13%	1.6	21	20%	3.7	28	21%	5.0	27	20%	4.8
35-54	37	54%	8.5	56	54%	12.7	74	56%	16.6	59	43%	13.3
55-84	23	33%	6.3	26	25%	7.0	29	22%	7.7	50	37%	13.1
Drug Type[†]												
Alcohol	32	46%	2.5	49	48%	3.6	67	51%	4.9	63	46%	4.4
Benzodiazepines	31	45%	2.4	30	29%	2.2	38	29%	2.8	42	31%	3.1
Cocaine	42	61%	3.2	57	55%	4.1	81	62%	6.1	65	48%	4.8
Heroin	20	29%	1.5	51	50%	3.8	73	56%	5.3	61	45%	4.3
Methadone	25	36%	1.9	20	19%	1.5	27	21%	2.1	31	23%	2.3
Opioid Analgesics	15	22%	1.2	31	30%	2.4	33	25%	2.5	31	23%	2.3
UHF-42 neighborhood[‡]	2010-2011					2012-2013						
	Number		Rate			Number		Rate¹				
Washington Heights-Inwood	26		6.2			42		9.9				
Central Harlem	27		10.5			47		18.8				
East Harlem	24		14.4			28		16.6				
Upper West Side	11		2.8			30		7.9				
Upper East Side	13		3.7			19		4.6				
Chelsea-Clinton	20		7.9			27		9.2				
Gramercy Park-Murray Hill	10		4.9			18		7.0				
Greenwich Village-SoHo	10		6.6			X		X				
Union Square	22		7.0			45		13.3				
Lower Manhattan	6		6.0			X		X				

*Percentage of deaths within subgroup are calculated among categories presented.

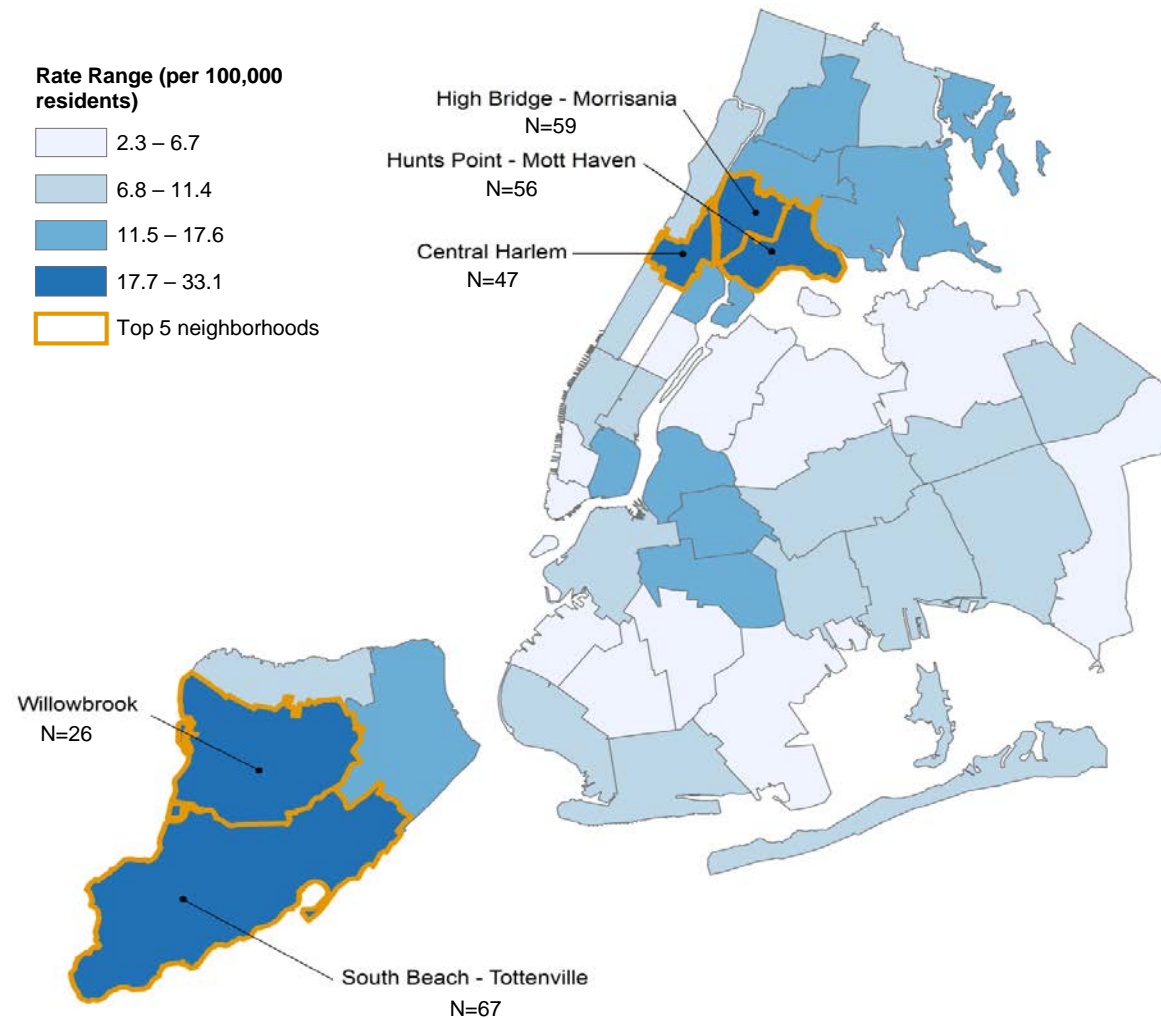
† Drug Type, not mutually exclusive; percent will not equal 100%.

‡ By UHF-42 Neighborhood, number is the total across two years and rate is the average across two years.

1. Data censored with "X" due to small number of events.

Map 1. Top five New York City neighborhoods: Rates of unintentional drug poisoning (overdose) deaths by neighborhood* of residence, 2012-2013

Source: Bureau of Vital Statistics/Office of the Chief Medical Examiner, New York City; Rates calculated using NYC DOHMH population estimates, modified from US Census Bureau intercensal population estimates, 2013. Updated October 8, 2014. Analysis by Health Department's Bureau of Alcohol and Drug Use Prevention, Care and Treatment.



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